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234. WASHING FOR GOLD.

silver, of the work, for workmanship. The fineness of the gold used is from eighteen to twenty-two and a half carats. Copper is the alloy for gold (four to sixteen *yué* of copper to the *kyat* or tikal). Silver is used of rupee fineness (four *yué* of alloy to the *kyat*) up to pure metal (*baw*). The intermediate fineness of sterling silver is the most usual. Silver is alloyed with copper and with zinc. With the few implements named above, plate for display and ornaments for women's wear are fashioned, of beautiful design and considerable finish. Chasing and *repoussé* ornament are used for the gold and silver plate, filigree and beading for the gold ornaments. Those who can afford it, serve drinking-water to their guests in a large silver bowl (*paḷâ*) holding a gallon or so, with a small *paḷâ* floating on the water. Other objects of luxury are silver lime-boxes, betel-boxes, hafts and scabbards of sabres. Broad zones of *repoussé*-work are relieved by fillets and beadings. The plain vessel having been hammered into shape is filled with a tough lac. This affords a ductile matrix, yielding where the chaser is applied and supporting the relief portions. The first step is to outline the work with a bronze punch, after which the lac is melted out and the metal annealed. Lac is poured in again, and a stage of relief raised. By successive annealings the full relief is obtained.* The figure designs are the signs of the zodiac, episodes from *sat*, and mythical animals. Women frequently carry some thousands of rupees worth of gold in the form

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235. VILLAGE SILVERSMITH.

* The figure to the left in No. 237 is Go Tha Ban of Maulmain, the silversmith who designed and executed the tools used for the sides of this volume. The back is from the cover of a *Kambawsá*, to the colours of which it corresponds.

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237. TOWN SILVERSMITH.

of plain gold bangles (*lek-kauk*), and their ear-plugs consist of a roll of sheet-gold coiled to the thickness of a finger. The Burmans admire a red-yellow gold with dull surface. They enhance the effect by a red colouring of the interstices of the work, in the same way as the Chinese do. Neck ornaments (*bayè*) are of several kinds. The commonest one used to be the thick roll of gold filigree, worn in front of the neck. This is now replaced by *bayè* of several chains, for the most part jewelled. On the breast is worn the broad *dalizán*, also formerly of filigree, but now of jewels and pearls. Strings of real and imitation pearls are worn; and jewelled pins and gold or jewelled combs in the hair. Rings are worn on the fingers and gold filigree buttons of the Chinese type on the jackets. The last two are the only ornaments now used by men. Anklets are worn by children.

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Gold and silver coinage on a European model was adopted by the kings of Burma about the middle of the nineteenth century—the "peacock" coins, struck from dies engraved in Paris. Rough coins of lead used to circulate. The coins shown in No. 238 are those of Arakán kings from 1500 to 1750 A.D., from the collection of the late Mr. C. H. White. Before the introduction of coinage,

238. SILVER COINS OF THE ARAKAN KINGS.

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239. GOLD-BEATERS.

circulates in Burma is three times the value of the lowest Indian coin. Notes have no circulation as yet among the Burmans, although they now bear their figures of value in Burmese.

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Rubies and sapphires (*kyauk-myat*) are separated from the sand and gravel of certain localities, notably Mogôk, in the same way as gold is. Hard gems are cut with gem-dust on a horizontal wheel driven by a fly-wheel and treadle in a regular lathe-stand. Rock-crystal is cut in this way and also on a bone. Jade is found at Mogaung and is exported to China. Amber is found at Bamáw.

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Gold-leaf is used in enormous quantities for gilding *zedi* and images. Only pure gold is employed. The paper for separating the gold-leaf in the book in

gold and silver bullion were used for exchange, as they still are in the Shan States. Chinese gold is current in the form of foil with the market stamp of fineness. It can be conveniently cut with scissors and weighed. Travellers often carry their bullion in this form. Silver is used by the Shans in the form of ingots which have to be hewn and assayed when making a purchase. The standard for commodities, wages and rent is silver, the fluctuation being referred to the gold. The lowest coin that

240. ALCHEMISTS.

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242. DEFILE BELOW THE GREAT RAPID OF THE SALWEEN.

which it is hammered is obtained from bamboo-fibre.

In Burma the idea still prevails that gold may be compounded from baser metals or the quantity of fine gold augmented by their means. Alchemists are found in every town, who experiment in the hope of success or practise on dupes who furnish the gold that is to be increased. A furnace and blast is the chief appliance of the laboratory, and the potent agent relied upon is mercury. Ingredients of every sort, animal, vegetable and mineral, are experimented with, under the influence of charms and cabalistic forms, whence the name for alchemy, *ekkaya-tò*. The business is under the ban of religion, not alone as being actuated by greed (*lawba*, p. 44), but because primitive Buddhism eschews every thing mystical and occult. The operations are carried on at night for secrecy. Reputed adepts are found among the class of recluses called *yathé*, who from their life in the wilds are supposed to penetrate the arcana of nature.

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243. TEAK-TREE OUT OF LEAF (MARCH).

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Wood-work was greatly restricted until better tools were imported. Planks and scantlings used to be laboriously prepared for boat-building and for palaces, religious edifices, and the houses of the great. Excepting the inner gates of the masonry temples, wood-work over a century old is scarce. But before the Burmans possessed the means of turning their timber to account for themselves, the country had become noted for its stock of teak. Burma possesses many valuable woods, but the pre-eminence of teak is such that for general purposes *timber* had come to mean always *teak* timber. Teak possesses the advantages